ecology and environment, inc.

工1 8/2/93

						 		Versio	n 988
			Α.	GENERAL I	PPORMATION	i .			
Project Title:	Venus	Labs		Pro	ject No.:	2T205	51		
				TDD	/Pan No.:	T05- 930	7-022/	EIL 0319	SAA
Project Manager	: Lisa	Gracz	1K		ject Dir.:	•			
Location(s):		•	<i>'</i> .	nod Dale	, FL		,	, , -	
Prepared by:	Lista &	Lace	1k		,	i: 8-	2-93		
Approval by:	MAD A	15	Pu -		Approved	ı: 8-	2-93		
Site Safety Off	icer Review:	Komh	Indan.	^		i: <u>8-2-</u>	93		
- Scope/Objective		allect	Suctar					er 4 cr	ee V
on site f									
Proposed Date of			8-3-	93	U·UI	Commen	3 THY 11 18	Will ME	- Prince
Background Info			<u>. u . .</u>	Preli	minary (N available	o analytical	t X 1		
Documentation/Su	ummary:	٠	•		•			•	
Overall Chem	ical Hazard:		Serious (× 1		Moderate [Unknown [1		
Overall Physi	ical Hazard		Serious (Low (×!		Moderate [Unknown [1 .		
· 			B. SI	re/waste chi	ARACTERISI	rics	. 		
Vaste Type(s):	-					·	,		
Liquid [X 1	Solid	t , 1	Sludge	t y	Gas/Vapor	$t \rightarrow 1$.		
haracteristic(s	i):								
Flammable/ [Ignitable	X 1	Volatile	ι×1 .	Corrosive	(X)	Acutely Toxic	t 1		
Explosive [1	Reactive	(J	Carcinogen	(X)	Radioactive	* []		
Other:					, 		· · · · · · · · · · · · · · · · · · ·		`
hysical Hazards	:						•		
Overhead [1	Confined* Space	t j	Below Grade	f 1	Trip/Fall	ιΧı		
Puncture ()	× 1	Burn	t 1	Cut	! X !	Splash	(X)		
Noise [1 . (Heat Cold	t 🗶 1	Other:			· ·		

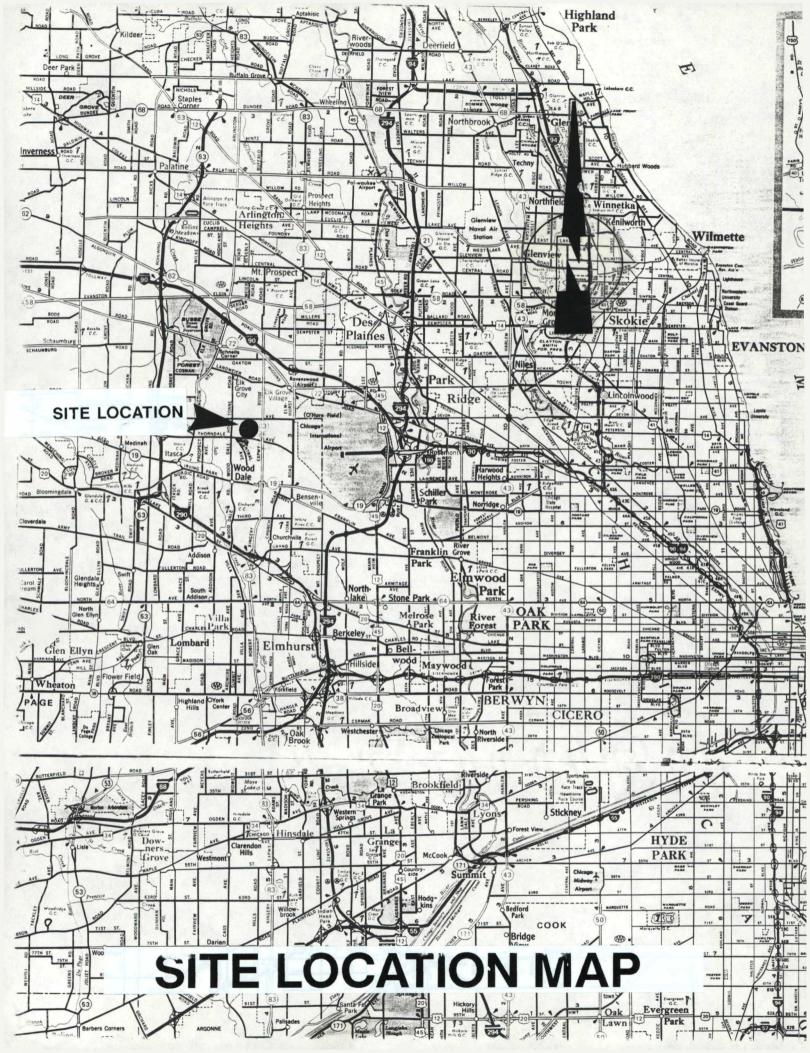
*Requires completion of additional form and special approval from the Corporate Health/Safety group. Contact RSC or HQ. HSO18A(04/02/91)

10 MI + 10 Ot , mos	salvente	. The facil	ling Plan for detail	edly disch	arsing iller
somers. Th	. V.S. F.94	is moting	3 Suprise VI	sit to the	facility on 8.
Locations of Chemic					7 2.
		UHA :: UU H	;		•
Estimated Volume of	Charian la Magha	1/2 1/2			
estimated volume of	Cuemicais/wasce	UNADAL.) //		
				- 	· ·
Site Currently in O		Yes: [X]	No: []		· · - · · · · · · · · · · · · · · · · ·
Site Currencty in O	peraction				
		C WASABI	evaluation		
A Physical Hanned	un maale dia al			ling - noigo baga	rd abo) and musha
t Physical Hazards m. (Task numbers a			lusion nazaro, drii	Trud - norse uses	rd, etc.; and numbe
k/Physical Hazard E	valuation: 1.	Site Reconnais	ssance - Triplf	all, Heat Stre	s, puncture
		10	Splash, punctu		- 1
Drum Same	iline - Tris	I fall Solasi	, puncture	hect sto	e 58
1	0	/ / / /	. // -	,	
			•		
			·		
mical Hazard Evaluat	tion:				
emical Hazard Evaluat	tion:				
mical Hazard Evaluat Compound	tion: (ppm) PEL/TWA	Route of Exposure	Acute Symptoms	Odor Threshold	Odor Description
Compound	(ppm) PEL/TWA	of Exposure	Symptoms	Threshold	1
Compound Benzene	(ppm) PEL/TWA	of Exposure IN, Eye, PA, SL, TH	Dizziness, V, N, BV TR s Kin	5.00 aam	aromatic faint, sweet,
Compound Benzene	(ppm) PEL/TWA	of Exposure IN, Eye, PA, SL, TH	Dizziness, V, N, BV TR s Kin	5.00 aam	aromatic faint, sweet, ether-lite Chloroform-lite,
Compound Benzene	(ppm) PEL/TWA	of Exposure IN, Eye, PA, SL, TH	Dizziness, V, N, BV TR s Kin	5.00 ppm NA 390 ppm	aromatic faint, sweet, ether-like, Chloroform-like, ether like
compound Benzene Linyl Chloride 1,1, -Trichloroethane Xylene	(ppm) PEL/TWA 1.0 0.1 /ppm 350 350 100 100	of Exposure IN, Eye, PA, SK, TH IN, IH, Eye, SK IN, eye, DA, SK, TH IN, Eye, DA, SR, TH	Symptoms Diziness, V, N, BV IR, Kin TR, DR, AB, C TR, N, DR, dizzy Confusion Diziness, H, N, V, AB, TP	5.00 ppm NA 390 ppm	aromatic faint, sweet, ether-lite Chloroform-like, ether like aromatic
compound Benzene Linyl Chloride 1,1, -Trichloroethane Xylene	(ppm) PEL/TWA 1.0 0.1 /ppm 350 350	of Exposure IN, Eye, PA, SL, TH	Symptoms Diziness, V, N, BV IR, Kin TR, DR, AB, C TR, N, DR, dizzy Confusion Diziness, H, N, V, AB, TP	5.00 aam	aromatic faint, sweet, ether-like, Chloroform-like, ether like
compound Benzene Linyl Chloride Lil Trich broethene Xylone Sulfuric Acid	(ppm) PEL/TWA 1.0 0.1 /ppm 350 350 100 100	of Exposure IN, Eye, PA, SK, TH IN, IH, Eye, SK IN, eye, DA, SK, TH IN, Eye, DA, SR, TH	Symptoms Diziness, V, N, BV IR, Kin TR, DR, AB, C TR, N, DR, dizzy Confusion Diziness, H, N, V, AB, TP	5.00 ppm NA 390 ppm	aromatic faint, sweet, ether-lite Chloroform-like, ether like aromatic
compound Benzene Linyl Chloride 1,1, -Trichloroethane Xylene	(ppm) PEL/TWA 1.0 0.1 /ppm 350 350 100 100	of Exposure IN, Eye, PA, SK, TH IN, IH, Eye, SK IN, eye, DA, SK, TH IN, Eye, DA, SR, TH	Symptoms Diziness, V, N, BV IR, Kin TR, DR, AB, C TR, N, DR, dizzy Confusion Diziness, H, N, V, AB, TP	5.00 ppm NA 390 ppm	aromatic faint, sweet, ether-lite Chloroform-like, ether like aromatic
compound Benzene Linyl Chloride Lil Trich broethene Xylone Sulfuric Acid	(ppm) PEL/TWA 1.0 0.1 /ppm 350 350 100 100	of Exposure IN, Eye, PA, SK, TH IN, IH, Eye, SK IN, eye, DA, SK, TH IN, Eye, DA, SR, TH	Symptoms Diziness, V, N, BV IR, Kin TR, DR, AB, C TR, N, DR, dizzy Confusion Diziness, H, N, V, AB, TP	5.00 ppm NA 390 ppm	aromatic faint, sweet, ether-lite Chloroform-lite, ethersike aromatic odorles
compound Benzene Singl Chloride 1,1,-Trichloroethene Xylene Sulfuric Acid	(ppm) PEL/TWA 1.0 0.1 /ppm 350 350 100 100 0.25 0:25	of Exposure IN, Eye, PA, SK, TH IN, IH, Eye, SK IN, Eye, DA, SK, TH IN, Eye, DA, SR, TH IN, IH, DA, SK	Symptoms Diziness, V, N, BV IR, Kin TR, DR, AB, C IR, N, DR, dizzy Confusion Diziness, H, N, V, AB, V, N, H, Burns	Threshold 5.00 ppm NA 390 ppm 20ppm 6.25ppm	aromatic faint, sweet, ether-lite Chloroform-lite, ether Jike aromatic odor (es)
Benzene Vinyl Chloride 1,1,-Trichbrochane Xylone Sulfuric Acid	(ppm) PEL/TWA 1.0 0.1 /ppm 350 350 100 100 0.25 0:25	of Exposure IN, Eye, PA, SK, TH IN, IH, Eye, SK IN, Eye, DA, SK, TH IN, Eye, DA, SR, TH IN, IH, DA, SK	Symptoms Diziness, V, N, BV IR, Kin TR, DR, AB, C IR, N, DR, dizzy Confusion Diziness, H, N, V, AB, V, N, H, Burns	Threshold 5.00 ppm NA 390 ppm 20ppm 6.25ppm	aromatic faint, sweet, ether-lite Chloroform-lite, ether Jike aromatic odor (es)
compound Benzene Linyl Chloride Linyl Chloride Kylene Sulfuric Acid e: complete and att ABDOMINAL PAIN	(ppm) PEL/TWA 1.0 0.1 /ppm 350 350 100 100 0.25 0.25 ach a Hazard Eva	of Exposure IN, Eye, PA, SK, TH IN, TH, Eye, SK IN, Eye, DA, SK, TH IN, Eye, DA, SR, TH IN, TH, DA, SK AL ABSORPTION	Symptoms Diziness, V, N, BV IR, CKIA IR, DR, AB, C IR, N, DR, dizzy Confusion Diziness, H, N, V, AB, V, N, H, Burns major known contam IH = INHALATIO	Threshold 5.00 ppm NA 390 ppm 20ppm 6.25 ppm	Description aromatic faint, sweet, ether-lite Chloroform-lite, ether Jike aromatic Ddor (es)
Compound Benzene Cinyl Chloride Lily - Trichlorochene Xylene Sulfuric Acid Complete and att ABDOMINAL PAIN ACHES ANEMIA	(ppm) PEL/TWA 1.0 0.1 /ppm 350 350 100 100 0.25 0.25 ach a Hazard Eva DA = DERM DI = DIARE DS = DISTE	of Exposure IN, Eye, PA, SK, TH IN, TH, Eye, SK IN, Eye, DA, SK, TH IN, Eye, DA, SR, TH IN, TH, DA, SK AL ABSORPTION RHEA RESSED STOMACH	Symptoms Diziness, V, N, BV TR, CKin TR, DR, AB, C TR, N, DR, dizzy Confusion Diziness, H, N, V, AB, V, N, H, Burns major known contam: IH = INHALATIC IN = INGESTION IR1= IRR OF E.	Threshold 5.00 pm NA 390 ppm 20ppm 6.25 ppm	Description aromatic faint, sweet, ether-lite Chloroform-lite, ether Jike aromatic odor (es) C.H.E. below; coular skin contact ulceration
Compound Benzene invl Chloride 1,1, -Trichlorothene Xylone Sulfuric Acid Complete and attended	(ppm) PEL/TWA 1.0 0.1 /ppm 350 350 100 100 0.25 0.25 ach a Hazard Eva DA = DERMA DI = DIARE	of Exposure IN, Eye, PA, SK, TH IN, TH, Eye, SK IN, Eye, DA, SK, TH IN, Eye, DA, SR, TH IN, TH, DA, SK AL ABSORPTION RHEA RESSED STOMACH DEPRESSION	Symptoms Diziness, V, N, BV TR, CKIA TR, DR, AB, C TR, N, DR, dizzy Confusion Diziness, H, N, V, AB, V, N, H, Burns major known contam: IH = INHALATIC IN = INGESTION	Threshold 5.00 pm NA 390 ppm 20ppm 6.25 ppm inants. Codes for X X X X X X X X X X X X X	Description aromatic faint, sweet, ether-lite Chloroform-lite, ether Jike aromatic odor (es) C.H.E. below; OCULAR SKIN CONTACT

D. SITE SAFETY WORK PLAN

		D. SITE SAFEII HORE	/ LIMI	,	
	Attach map, use back of this zone, etc.	s page, or sketch of s	•	•	reductio
Perimeter id	Y N entified?[][] Si	te secured?	Υ [1 (× 1	
Work Areas D		one(s) of Contaminatio		ו או	
sonnel Prote	ction (TLD badges required f	or all field personne	1):		
Anticipated	Level of Protection (Cross-r	eference task numbers	to Section C):		
		•			
		В	С	1.11	salsad .
,	Task 1		$\leftarrow X$	Tif air	monit
•	Task 2		< x	will up if air Indicate	es to d
	Task 3	X			
•	Task 4				
	(Expand if necessar	y)			
ifications:					
				 	
ion Levels fo	or Evacuation of Work Zone P	ending Reassessment o	f Conditions:		
o Level I	o: 0 ₂ <19.5% or >25%, explo particulates > <u>N A</u> mg/m	sive atmosphere >10%	LEL, organic vapor	s above background	levels,
o Level (:: 0, <19.5% or >25%, explo		 LEL_{California-20	t), unknown organic	z vapor
	breathing zone) >5 ppm,	particulates > NA m	g/m³, other <u>NA</u>	·	
o Level E	3: 0 ₂ <19.5% or >25%, explosion breathing zone) >500 ppm	sive atmosphere >25%; , particulates > <u>NA</u>	LEL (California-20) mg/m², other <u>/</u>	t), unknown organic <u>/A</u>	vapors
o Level 3	A: 0, <19.5% or >25%, explo	sive atmosphere >25%	LEL (California-20)	t), unknown organic	vapors
	>500 ppm, particulates >	· · · · · · · · · · · · · · · · · · ·	<u> 1 A</u>		
Monitoring (daily calibration unless ot	herwise noted):			
. [Contaminant of Interest	Type of Sample	Monitoring Equipment	Frequency of Sampling	
-		(area, personal)	HNu		
-	DN-yanic Yapors	Hrea	Oxygen ineter	Continuous	
_	% Oxygen	Area	Ft rebrimeter		
r	Radiation	Area	Rad-mini	Recon Recon	
-	riadiux 1011	H174	1 1075-1117-11		
(E	xpand if necessary)		· · · · · · · · · · · · · · · · · · ·		
ntamination	Solutions and Procedures for	r Equipment, Sampling	Gear, etc.:		
	aningted equipmen	, ;		x Solution	<u> </u>
1	le rinsed with dis	1 1	. ,	+ rinse	
vatu w	1 1 6	1		Si'ON Fram	e
. <i>i</i>	nuner.				

HS018A(04/02/91)



Personnel Decon Protocol: A two wash	tub system will be used. To
first tub will be used for de	econtamination of clothing in
alconox solution. The second	
in distilled water.	
Decon Solution Monitoring Procedures, if Applicable:	N A
	, ,
Special Site Equipment, Facilities, or Procedures (Sa Must Meet 29 CFR 1910.120): Separene regulaves preservatives.	initery Pacilities and Lighting imustabe worn when handling
Site Entry Procedures and Special Considerations: Pe	ermission will be obtained prior to site entry. Stay upwind
of contamination when possible. The buddy system wil	I be maintained at all times.
Work Limitations (time of day, weather conditions, et	-
Work is restricted to daylight hours only and workers	are to be monitored for heat/cold stress. When
vermiculite is used to pack samples, dust masks will	be worn.
General Spill Control, if applicable:	
	<u> </u>
Investigation-Derived Material Disposal (i.e., expend	ables, decon waste, cuttings):
Investigative-derived materials will be decontaminate	d in accordance with procedures listed above. The
decontaminated material will be bagged and left on-si	te in appropriate waste containers with prior permission of
site owner/operator	
Sample Handling Procedures Including Protective Wear:	
After samples have been collected, the outside of the	sample bottles will be decontaminated by washing (not
submerging) the bottles in an Alconox solution and rin	nsing in distilled water. The protective clothing level
(i.e. suits, gloves, boots) worn during on-site job ac	ctivities will be maintained while decontaminating the
	n professional judgement. Latex gloves, at a minimum,
will be worn while handling the bottles after decontar	
Team Member*	Responsibility
Lisa Graczyk	Team Leader
Karen Rydzewski	
	Site Safety Officer
Michael Kulikowski	Team Member
	· · · · · · · · · · · · · · · · · · ·
*All entries into exclusion zone require Buddy System monitoring program and have completed applicable trai meets requirements of 29 CFR 1910.134, and ANSI Z88.2	ining per 29 CFR 1910.120. Respiratory protection program
HS018A(04/02/91)	

E. EMERGENCY INFORMATION

(Use supplemental sheets, if necessary)

LOCAL RESOURCES

(Obtain a local telephone book from your hotel, if possible)

Ambulance 9//	7.07
Hospital Emergency Room Elmhurst Memorial Hospital, 83	33-1400 , Emergency 941-43
Poison Control Center Elmhurst Memorial Hospital, 208- 9	41-4514
Police (include local, county sheriff, state) Wandale Police 708-	766-2151 , Du Page
county sheriff 708-668-0900, State 708-	742 - 3553
Fire Department 911 OR Local 708-766-2141	
Airport O'Have American Airlines 1-800-433-7300)
igency Contact (EPA, State, Local USCG, etc.) U.S. EPA	· · · · · · · · · · · · · · · · · · ·
Local Laboratory NA	
'IPS/Fed. Express 1-800 - 238-5355	
Elient/EPA Contact Ruth Mancos 312-953-3193 + Alan A	140- 312-884-0390
Site Contact Same NA	
SITE RESOURCES	
Site Emergency Evacuation Alarm Method Horn	
water Supply Source To be supplied by the TAT	
Telephone Location, Number to be determined	·
Cellular Phone, if available \mathcal{M}	
Radio NA	
ther NA	
EHERGENCY CONTACTS	
1. Dr. Raymond Harbison (Univ. of Florida) (501) 221-0465 Alachua, Florida	or (904) 462-3277, 3281 (24 hours _:)
2. Ecology and Environment, Inc., Safety Director Paul Jonmaire	
	(home)
3. Dean Tiebout, Regional Safety Coordinator, Chicago (312) 663-9415	(office) (home)
4. Jerry Oskvarek, Office Manager, Chicago	(home)
5. Tom Kouris, TAT Leader, Chicago	(office) (home)
6. Pat Zwilling, ATATL, Chicago	(home)
7. Ron Bugg, TAT Safety Officer, Chicago	(home)
HC0182/04/02/91)	

MEDTOX HOTLINE

1. Twenty-four hour answering service: (501) 370-8263

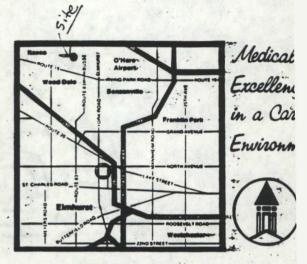
	What to report:					
	- State: "this is an emergency."	•			•	
	- Your name, region, and site.			;		
	- Telephone number to reach you.				٠	
-	- Your location.	. •				
	- Name of person injured or exposed.					
	- Nature of emergency.			•		
	- Action taken.	•				
2.	A toxicologist, (Drs. Raymond Harbison o answering service.	r associate) will	. contact you.	Repeat the info	rmation given	to th
3.	If a toxicologist does not return your contact is made:	all within 15 min	utes, call the	following perso	ns in order un	til
		•				
	a. 24 hour hotline - (716) 684-8940 b. Corporate Safety Director - Paul Jone c. Assistant Corp. Safety Officer - Ste d. Chicago Health & Safety Manager - Dec	ven Sherman - hom				•
		EMERGENCY ROT	JTES			
Dir	(NOTE: Field Team ections to hospital (include map) $\underline{\# \ell a}$	1	s) Prior to St on Live	ert of Work) 14 Blrd.	4	.
	Devon Prive east on D	even to	83 (Bus	se Huy.	- Drive	
	South on Busse to Non	cth Ave.	Head e	ast on 1	lorth ave	
4	o hospital Hospital will	be on ri	sut hand	side of	road!	
A	proximate travel dista	nce 15	10 miles	<u></u>		
Eme	f rgency Egress Routes to Get Off-Site $\underline{\mathcal{L}}$	ively Blud				
		, , , , , , , , , , , , , , , , , , ,				
		:				
 нsо:	L8A(04/02/91)					
			•			
		•				
		•			1	
		•		•		

E L M H U R S T M E M O R I A L H O S P I T A L

200 Berteau Avenue in Elmhurst, just off North Avenue

The Emergency Center at Elmhurst Memorial Hospital. r suspected poisonings	
suspected poisonings	
	941-4514
Poison Hotline	
r help with alcohol or drug dependence	941-4577
The Treatment Center at Elmhurst Memorial Hospital	
r counseling or therapy	953-2900
Guidance Center, an affiliate of Elmhurst Memorial Hospital	
r home care information	941-7045
Elmhurst Memorial Home Health Care	
you need a doctor?	941-4504
Physician Referral Service	

8 3 3 - 1 4 0 0



Founded in 1926, Elmhurst Memorial Hospital is committed to viding high quality family centered care. With 455 beds and bassinets, the hospital offers comprehensive inpatient and patient services to meet your specific health care needs. The Med Staff, numbering over 425, represents the full range of special More than 2,000 employees provide direct patient care as well support functions, around the clock.

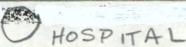
Do You Need A Doctor

CALL 941-450

Devon SITE

77

North Ave.



:8 12193

CHEMICAL NAME: Benzene

Synonym: Benzol, Benzole, Benzolene, Coal Tar Naphtha

Formula: C646

OOT Class: 1114

UN/NA #:

CHEMICAL PROPERTIES

Phys St: Liquid

ᅊ Boil Pt: 176.00

Ionz Pot: 9.25

FI Pt: 12,009F

Moi Wt : 78.11

Melt Pt: 41.00 сţ Vap Press: 75.00000 ·matic LFL : 1.30%

Sp Gr : 0.88

Frz Pt : 42.00 ٩F Odr: Thr : 5.00ppm

UFL: 7.90%

Stable: F

٥.

Hazardous Polymerization will occur: F

Odor : aromatic, pleasant, sweet

Incompat/React:nitric acid, oxidizing agents, chlorine, bromine :Water-slightly, soluble in organic solvents

TOXICOLOGICAL PROPERTIES

Exposure Limits: TLV-TWA (ACGIN): 0.100 ppm

" PEL (OSHA): 1.00 ppm ···

IDLH: 2000.00000pm

STEL: __1.60:ppm ---

STEL . _ 5.00 ppm

∂rooerties : CEILING: 25PPM/15MIN. ACCEPT MAX FEAK ABOVE-CEIL

Tox Data: Inhalation: rat LC50: 1000ppm/7nr

Dermai : skn rbt 500mg/24H-MDDERAT

: rat LD50: 4394mg/kg Carcinogen: human positive

Mutagen : exper Reproduct.: exper

Aquatic: : 5ppm/6hr/minnow/lethal/distilled water ...

Other Tox:: TARGET ORGANS: Blood, CNS, Skin, Bone Marrow, Eyes, Resp Sys

Routes of Exp.: Ingestion, Eye(Ocular), Dermal Absorption, Skin Contact, Inhalation

PERSONAL PROTECTIVE MEASURES

Respirators : AFR: dusty/windy condit or known high concent or >1 but Coppm; SCEA: >5ppm

: GMC-H or AP3 (RACAL) Cartridge Type:

Protective Clothing: Coverall: Saranex Gloves: Silvershield-8hr, PVA-6hr, Viton-6hr (PVA degrade in water)

- 1 Precautions: OSHA REGULATED CARCINOGEN.

FIRST AID:

Inhalation: move to fresh air, give O2/CFR if nec., SEEK MEDICAL ATTENTION

Eye/Skin : remove contaminated clothes, flush areas w/water for 15 min, SEEK MEDICAL ATTENTION

Ingestion: Treat for shock, CPR if nec., SIEK MEDICAL ATTENTION

SYMPTOMS

Acute : dizziness, meakness, euphoria, headache, nau/vout, tight chest, staggering, visual blurring, tremors, skin irritation/scali-

ng/cracking

Chronic: loss of appetite, drowsy, pervous, pallor, anemia, petechiae, about bleeding, aplasia of bone marrow, leukemia, ence-

phalopathy w/ataxia, tremulousness, emotional lability, diffuse cerebral atrophy

DISPOSAL. FIRE, SPILLS (see attached sheet)

Disposal: D Fire: 6,7 Leaks & Spills: 3,4,5,6,9

Decomposition Products: carbon monoxide, carbon dioxide

REFERENCES CONSULTED

ISMA Pocket Guide, Chris(vol. III), ACGIH TLV Booklet, RIECS References: Signa-Aldrich, Handbook of Poisoning, OSHA

Last Revision Date:

Chemical Classification: Aromatic Hydrocarbon

4/20/92

Synonym: Battery Acid, Dil of Vitriol

CAS No. :

Formula: H2SO4

COT Class:

UN/NA #:

CHEMICAL PROPERTIES

Phys St: Liquid.

Boil Pt: 518.00 O. Ionz Pot: 0.00

FI Pt: 0.00°F

CHENICAL NAME: Sulfuric Acid

Mo! Wt: 98.08

Melt Pt: 37.00

mad lo

LFL : 0.00%

So Gr : 1.84

Frz Pt: 50.00 οĘ.

Vap Press: 0.00100 Odr Thr : 0.25ppm

UFL: 0.00%

Stable : F

Hazardous Polymerization will occur: F:

Odor : odorless

Incompat/React:organics, metals, water, chlorates, carbides, fulminates, picrates

Solubility

:miscible but highly reactive

TOXICOLOGICAL PROPERTIES

Ture Limits: TLV-TWA (ACGIHD: 0.24980ppm

PEL (OSHA): 0.24930ppm

STEL: -

IDLH: 19.98369pps

STEL: -

Other Properties

Tox Data: Inhalation: quinea: LC50: 18mg/m3

Dermai

Orai

: rat: LD50: 2140 mg/kg

Carcinogen: Mutagen :

Reproduct .:

Aquatic : 24.5ppm/24hr/blugil/lethal/fresh water Other Tox.: TARGET ORGANS: Resp Sys, Eyes, Skin, Teeth

Routes of Exp.: Ingestion, Dermal Absorption, Skin Contact, Inhalation

PERSONAL PROTECTIVE MEASURES

Respirators

Cartridge Type

: AFR: dusty/windy condit or known high concent or >1 but <5ppm; SCEA: >5ppm : GMB or GMB-H. GMC

Protective Clothing: Coverall: Saranex

Gloves: Neopreme

11 Precautions:

FIRST AID

Inhalation: move to fresh air, give 02/CFR as nec. SEEK MEDICAL ATTENTION

Eye/Skin : Flush w/water for 15min, treat skin burns by applying dry, sterile dressing. SEEK MEDICAL ATTENTION

Ingestion: Give milk or water in lagety. DO NOT INDUCE VOMITING. SEEK MEDICAL ATTENTION

SYMPTOMS

Acute : severe burns to skin, eyes, respir. tract, cough, diffic. breathing, headache, bluish face/lips, salivation, abdom cra-

mps, naus/vomit, tongue changes white to black and corrosion of teeth.

Chronic:

DISPOSAL, FIRE, SPILLS (see attached sheet)

Disposal: N

Decomposition Products:

Fire: 2,12

Leaks & Spills: 1,4,6,9

REFERENCES CONSULTED

ISHA Pocket Guide, Chris(vol. III), ACGIH TLV Booklet, RTECS

O. ... References: 1st Aid for Chem Accidents, Emerg. Resp. Guide, H/R Indus. Tox., Signa-Aldrich

Last Revision Date: 04/13/89

Chemical Classification: Inorganic Acids

Synonym: Methylchloroform

3 No.

Formula: CHSCC13

Stass: 2831

UN/NA #:

CHEMICAL PROPERTIES

ys St: Liquid

ot. Boil Pt: 165.00

Ionz Pot : 10.20

FI Pt: 0.00°F

| Wt : 133.41

Meit Pt: -31.00 ot. Vap Press: 100.00000

LFL : 7.00%

nmile

Gr : 1:31

Frz Pt : -33.00

Odr Thr : 350.00ppm

UFL: 16.00%

able : F

Hazardous Polymerization Hill occur: F

or : sweetish, chloroform-like, etherish

compat/React:strong oxidizers, Al, magnesium, zinc, strong bases; K, Na, acetone, mitrates, U, yield strong rxns

slubility : insoluble-water; sol in acetone, benzene, carbon tet, methanol, ether

TOXICOLOGICAL PROPERTIES

STEL: -

- Limits: TLV-TWA (ACGIH): 350.00000ppm

PEL . (OSHA): 350.00000ppm

IDLH: 1000.00000ppm

CHEMICAL NAME: Trichloroethane, 1,1,1-

STEL: 450.00000ppm

: Affect CNS, INCITANT roperties stassInha stion: human Tolo: 920ppm/70M

√Dermai :=-

Ocal .

: rat: LD50: 10,300 mg/kg

Carcinogen: suspect Mutagen : exper

Reproduct .: teratogen

Aquatic: : 75-150ppm/1 pinfish/TLm/Salt Hater-no time period Other Tox:: TARGET ORGANS: DNS, Eyes, Nose, Liver, Kidneys

Routes of Exp.: Ingestion, Eye(Ocular), Dermal Absorption, Skin Contact, Inhalation

PERSONAL PROTECTIVE MEASURES

epirators. ridge:Type : AFR: dusty/windy condit or known high concent or >1 but <5ppm; SCBA: >5ppm : GMC-H or AP3 (RACAL)

ive Cl ng: Coverall: PE Tyvek

Gloves: Viton

Precautions:

·國際等於2

FIRST AID

nhalation: move to fresh air, artf resp if nec, SEEK MEDICAL ATTENTION

ye/Skin : remove contad cloth, flush w/water 15min, wash skin with soap/water, SEEK MEDICAL ATTENTION

ngestion : give water, induce vomiting if conscious, SEEK MEDICAL ATTENTION IMMEDIATELY

SYMPTOMS

cute : irritation to eyes/skin/muc membranes, incoordination, nausea, confusion, droxsiness, poss loss of consciousness, di-

zzy; possible lung/brain damage form high concentrations

hronic: dermatitis, liver/kidney damage-minimal

DISPOSAL, FIRE, SPILLS (see attached sheet)

isposal: A

La ·

Fire: 3,7

Leaks & Spills: 6,9,11

ecomposition Products: CO, CO2, HC1, Phosgene

REFERENCES CONSULTED

WSMA Pocket Guide, Merck Index, Chris(vol. III), ACGIN TLV Socklet, RTECS

References: Signa-Aldrich, Poison Handbook

Last Revision Date: 05/10/89

Chemical Classification: Halogenated Hydrocarbon

VINYL CHLORIDE

100 100 100 100

The information in this sheet applies to workplace exposure resulting from processing, manufacturing, storing or handling and is not designed for the population at large. Any generalization beyond occupational exposures should not be made. The best industrial hygiene practice is to maintain concentrations of all chemicals at levels as low as is practical.

Chemical Names: Chloroethylene, chloroethene, ethylene monochloride, monochloroethene, monochloroethylene; CAS 75-01-4.

Trade Names: VC, VCM, Troviduer, and others.

Uses: In the manufacture of plastics, as a refrigerant, and in organic synthesis.

PHYSICAL INFORMATION

Appearance: Colorless gas; may be liquified by refrigeration or pressurization.

Odor: Faint, sweet, ether-like. Minimum Detectable by Odor: 4000 ppm.

<u>Rehavior in Water</u>: Slightly soluble. <u>Evaporation</u>: Rapid.

HEALTH HAZARD INFORMATION

OSHA Standard: Average 8 hour exposure -- 1 ppm.

NTOSE Recommended Limit: Lowest reliably detectable level.

ACGIH Recommended Limit: Average 8 hour exposure -- 5 ppm.

Short Term Exposure:

<u>Inhalation</u>: Exposure at 8,000 ppm for 5 minutes can cause a feeling of intoxication, tiredness, drowsiness, abdominal pain, numbness and tingling in fingers and toes, pains in joints, coughing, sneezing, irritability and loss of appetite and weight.

Skin: Contact with liquid may cause frostbite; contact with vapor may cause irritation and rash. Absorption is possible through the skin.

Eves: Can cause severe and immediate irritation.

Indestion: None found.

Long Term Exposure:

May cause club-like swelling and shortening of finger tips. Skin may become thickened and stiff with coarse, whitish patches. Bones and joints of arms and legs may suffer damage. Liver and spleen damage may occur. Not all symptoms disappear after exposure stops.

Vinyl chloride has caused liver cancer in occupationally exposed individuals.

*Prepared by the Bureau of Toxic Substance Assessment, New York State Department of Health. For an explanation of the terms and abbreviations used, see "Toxic Substances: How Toxic is Toxic" available from the New York State Department of Health.

EMERGENCY AND FIRST AID INSTRUCTIONS

<u>Inhalation</u>: Move person to fresh air. Give artificial respiration or oxygen as required. Seek medical attention.

Skin: Remove soaked clothing. Wash affected area with soap and water for at least 5 minutes. Seek medical attention if necessary.

Eves: Wash with running water for at least 15 minutes. Seek medical attention.

Ingestion: Seek immediate medical attention.

FIRE AND EXPLOSION INFORMATION

General: Flammable. Fumes may travel long distances and flash back. Ignites at -108°F (-78°C)

Explosive Limits: Upper -- 33%, Lower -- 3%.

Extinguisher: Stop flow of gas. Use water to keep fire exposed containers cool.

REACTIVITY.

Conditions to Avoid: High temperatures may cause breakdown to phospene and hydrochloric acid. Avoid sources of ignition.

Materials to Avoid: Long contact with air may result in formation of unstable peroxides which are explosive. Corrosive to iron at high temperatures in the presence of water.

PROTECTIVE MEASURES.

Storage and Handling: Protect against physical damage. Outside or detached storage preferred. Indoors, store in a cool, dry, well-ventilated area away from sources of ignition.

Engineering Controls: Provide ventilation or process enclosures. Sinks, showers and eyewasn stations should be readily available.

Protective Clothing (Should not be substituted for proper handling and engineering controls): Goggles, gloves and impervious clothing should be worn if contact with vinyl chloride is possible.

Protective Equipment: For any detectable levels use a self-contained breathing apparatus with a full facepiece operated in a positive pressure mode or a supplied-air restrator with an auxiliary self-contained breathing apparatus, both with a full facepiece and operated in a positive pressure mode. For escape from a contaminated area use a gas mask providing protection against vinyl chloride or an escape self-contained breathing apparatus.

PROCEDURES FOR SPILLS AND LEAKS

Get all workers out of the spill area. Put on respirator and other protective clothing. Establish ventilation to keep levels below explosive limit. Remove possible sources of ignition. Move leaking cylinders to safe place in open air. For final disposal contact your regional office of the New York State Department of Environmental Conservation.

For more information:
Contact the Industrial Hygienist or Safety Officer at your worksite or the New York State
Department of Health, Bureau of Toxic Substance Assessment, 2 University Place, Albany,
New York 12203.

" ASS ! FLAWABLE

Synonym: Dimethylbenzene, Xylol

Formula: C&H(CHB)2

UN/NA #:

CHEMICAL PROPERTIES

Phys St: Liquid

Boil Pt: 0.00 Welt Pt: 0.00 ot.

Ionz Pot: 8.56 Vap Fress: 9.00000 FI Pt: 81.009F LFL : 1.00%

CHEMICAL NAME: Xylene, all isomers

Mol Nt : 106.20. Sp Gr : 0.86

Frz.Pt: 0.00 %

Odr Thr : 20.00ppm

Hazardous Polymerization will occur: F

UFL: 7.00%

Stable: Fill . 5

Odor : aromatic odor, sweet

Incompat/React:strong oxidizers Solubility : practically insoluble in water

Exnosure Limits: TLV-TWA (ACGIH): 100.00000ppm

TOXICOLOGICAL PROPERTIES PEL_(DSHA): 100.00000ppm

STEL: -

IDLH: 1000.00000pgs

STEL: 150.00000ppm

"roperties

.: Inha: - .: hum TClo: 200ppa

Dermai : ---

Oral : rat LU50: 4300 mg/kg

Carcinogen:

Mutagen :: exper

Reproduct.: exper teratogen ...

Aquatic :-

Other Tox.: TAKCET ORGANS: ONS, Eyes, GI Tract, Blood, Liver, Kidneys, Skin

Routes of Exp.: Ingestion, Eye (Ocular), Dermal Absorption, Skin Contact, Inhalation

PERSONAL PROTECTIVE MEASURES

Respirators: A state of the concent or the concent

: GMC-H or AP3 (RACAL)

^ ---idge Type e Clot

era: IE Tyvek

Gloves: FVA, Viton (FVA degrades in water)

. recautions:

FIRST AID

Inhalation: move to fresh air, artforesp if nec, SEEK MEDICAL ATTENTION

Eye/Skin : flush w/water 15 minutes, wash skin with soap/water, SEEK MEDICAL ATTENTION

Ingestion: LO NOT INDUCE VONITING; SEEK MEDICAL ATTENTION INVEDIATELY

SYMPTOMS

Acute : yapor causeidizziness, headache, cough, pulmonary distress/edema, nausea/vomiting, abdominal cramps, narcotic in hig-

h concent, mild skin irritant

Chronic: possible liver and/or kidney damage, pulmonary congestion. Ingestion may be fatal.

DISPOSAL, FIRE, SPILLS (see attached sheet)

Fire: 6,7

Leaks & Spills: 3,4,5,6,9

[itsposal::UTE [Decomposition Products: (CO, 202

REFERENCES CONSULTED

SMA Pocket Guide, Merck Index, Chris(vol. III), ACGIN TLV Booklet, RTECS

References: N106H_Guides, Sigma-Aldrich

Chemical Classifications Hydrocarbons, Aromatic

Last Revision Date:

05/10/89

WASTE-DISPOSAL METHODS

The disposal methods outlined below are intended only as guides. We do not assume responsibility for their use. Careful consideration must be given to the chemical and physical properties of the substance. In addition, local laws and regulations may preclude the use of these methods which are primarily designed for small quantities. Observe all federal, state, and local laws.

The disposal of some chemicals may require deactivation or modification of the material by chemical means. Chemical waste-disposal reactions must be handled with the same care and consideration used with synthetic procedures. Appropriate consideration must be given to reaction conditions, *i.e.*, stoichiometry, order and rate of addition, heat of reaction, evolution of gaseous products, pH, efficiency of stirring, rate of reaction, atmospheric sensitivity, etc.

Chemical waste-disposal reactions should be carried out in a chemical fume hood and in appropriate laboratory glassware. Because these reactions are often vigorous, protective safety equipment auch as safety goggles, respirator, gloves, face and/or safety shield and other protective equipment must be used.

initial reactions in a disposal sequence should be carried out on a small scale (5-10g). The reactant concentrations should not exceed 10% of the reaction volume and the final reaction volume should not exceed 50% of the working capacity of the reaction vessel, regardless of the reaction scale. Larger quantities of the material should be handled in several small-size reactions. To ensure completion of reaction, the waste disposal procedure should be run for at least an additional 4 to 8 hours after all materials have been mixed.

All reactions should be run by technically qualified persons familiar with the potential hazards of the chemical reactions.

- A Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
- B The material should be ignited in the presence of sodium carbonate and sisked time (calcium hydroxide). The substance should be mixed with vermiculite and then with the dry caustics, wrapped in paper and burned in a chemical incinerator equipped with an afterburner and accubber.
- C This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber.
- D Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable.
- E To a solution of the product in water, add an excess of dilute sulfuric acid. Let stand overnight. Remove any insolubles and bury in a landfill site approved for hazardous-waste disposal.
- F Cautiously dissolve the material in water. Neutralize immediately with sodium carbonate or, if the material does not dissolve completely, add a little hydrochloric acid followed by sodium carbonate. Add calcium chloride in excess of the amount needed to precipitate the fluoride and/or carbonate.

- Separate the insolubles and bury in a landfill site approved for hazardous-waste disposal.
- G Under an inert atmosphere, cautiously add the material to dry butanol in an appropriate solvent. The chemical reaction may be vigorous and/or exothermic. Provisions must be made for venting of large volumes of highly flammable hydrogen and/or hydrocarbon gases. Neutralize the solution with aqueous acid. Filter off any solid residues for disposal as hazardous waste. Burn the liquid portion in a chemical inclinerator equipped with an after-burner and scrubber.
- H Neutralize the solution and add filtering agent (10g per 100mi). Evaporate the liquid and bag the residual solid for burial in a landfill site approved for hazardous-waste disposal.
- Dissolve the solid in (or dilute the solution with) a large volume of water. Carefully add a dilute solution of acetic acid or acetone to the mixture in a well ventilated area. Provisions should be made to vent safely the hydrogen gas given off during the decomposition. Check acidity of the solution and adjust to pH 1 if necessary. Let stand overnight. Neutralize the solution (pH 7). Evaporate the solution and bury the residue in a landfill site approved for hazardouswaste disposal.
- J Cautiously acidify a 3% solution or a suspension of the material to pit 2 with sulfurio acid. Gradually add a 50% excess of aqueous sodium bisulfite with stirring at room temperature. An increase in temperature indicates that a reaction is taking place. If no reaction is observed on the addition of 10% of the sodium bisulfite solution, initiate it by cautiously adding more acid. If manganese, chromium, or molybdenum is present, adjust the pit of the solution to 7 and treat with sulfide to precipitate for burial as hazardous waste. Destroy excess sulfide, neutralize and flush solution down the drain.
- K Please contact the Technical Services Department. Be sure to mention name, catalog number and quantity of the material.
- L The material should be dissolved in 1) water; 2) acid solution or 3) oxidized to a water-soluble state. Precipitate the material as the sulfide, adjusting the pH of the solution to 7 to complete precipitation. Filter the insolubles and dispose of them in a hazardous-waste site. Destroy any excess sulfide with sodium hypochlorite. Neutralize the solution before flushing down the drain.
- M A sturry of the arenediazonium salt with water can be disposed of by adding it gradually to a stirred solution of 5-10% excess 2-naphthol in 3% aqueous sodium hydroxide at 0-20°C. After 12 hours, the resulting azo dye is filtered and either incinerated or buried in a landfill site approved for hazardous-waste disposal. Neutralize the remaining solution before disposal.
- N For small quantities: cautiously add to a large stirred excess of water. Adust the pH to neutral, separate any insoluble solids or liquids and package them for hazardous-waste disposal. Flush the aqueous solu-

- tion down the drain with pienty of water. The hydrolysis and neutralization reactions may generate heat and fumes which can be controlled by the rate of addition.
- Bury in a landfill site approved for the disposal of chemical and hazardous waste.
- P Material in the elemental state should be recovered for reuse or recycling.
- Q Cautiously make a 5% solution of the material in water or dilute acid. There may be a vigorous, exothermic reaction and fumes may be generated due to the hydrolysis of the material. Control any reaction by cooling and by the rate of addition of the material. Gradually add dilute ammonium hydroxide to pH 10. Filter off any precipitate for disposal in a chemical landfill. If there is no precipitation, gradually adjust the pH from 10 to 6, stopping when precipitation occurs.
- R Catalysts and expensive metals should be recovered for reuse or recycling.
- 8 Treat a dilute basic solution (pH 10-11) of the material with a 50% excess of commercial laundry bleach. Control the temperature by the addition rate of bleach and adjust pH if necessary. Let stand overnight. Cautiously adjust solution to pH 7. Vigorous evolution of gas may occur. Filter any solids for burial in a chemical landfill. Precipitate any heavy metals by addition of sulfide and isolate for burial. Additional equivalents of hypochiorite may be needed if the metal can be oxidized to a higher valence state. For metal carbonyls, the reaction should be carried out under nitrogen.
- T Cautiously make a 5% solution of the product in water; vent because of possible vigorous evolution of flammable hydrogen gas. Acidity the solution to pH 1 by adding 1M sulfuric acid dropwise. Acidification will cause vigorous evolution of hydrogen gas. Allow the solution to stand overnight. Evaporate the solution to dryness and bury the residue in a landfill site approved for hazardous-waste disposal.
- U Take the material (or a solution) and make a 5% solution in tetrahydrofuran. Cautiously add the solution dropwise to an ice-cooled, stirred basic solution of commercial bleach. Oxidation may release flammable hydrocarbon gases which must be vented. Let stand overnight. Adjust the pH to 7 and destroy excess hypochlorite with sodium bisuifite before disposal of the solution.
- V Under an inert atmosphere cautiously add dry butanol or a mixture of dry butanol in an appropriate solvent, to a solution of the material in tetrahydrofuran. The chemical reaction may be vigorous and/or exothermic. Provisions must be made for the venting of a large volume of flammable hydrogen gas. When gas evolution ceases, cautiously add a basic hypochlorite solution dropwise to the reaction solution. Let stand overnight. Neutralize the solution and treat with sodium bisulfite to destroy any excess hypochlorite. Filter any solids for burlal in a landfill site approved for hazardous-waste disposal.

THE SIGMA-ALDRICH LIBRARY OF CHEMICAL _AFETY DATA Explanation of Codes

PROCEDURES FOR SPILLS OR LEAKS

- Absorb on sand or vermiculite and place in closed container for disposal.
- 2 Cover with dry lime, sand, or soda ash. Place in covered containers using nonsparking tools and transport outdoors.
- 3 Shut off all sources of ignition.
- 4 Evacuate area.
- 5 Cover with an activated carbon adsorbent, take up and place in signed conteiner. Transport suddors,
- 6 Ventilate area and wash spill site after material pickup is complete.
- 7 Sweep up, place in a bag and hold for waste disposal.
- 8 Avoid raising dust.
- 9 Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.
- 10 Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.
- 11 Cover with dry lime or soda ash, pick-up, keep in a closed container and hold for waste disposal.
- 12 Carefully sweep up and remove.
- 13 Flush splil area with copious amounts of water.
- 14 Mix with solid sodium blcarbonate.
- 15 Place in appropriate container.
- 16 Wear protective equipment.
- 17 Wash spill site with soap solution.
- 18 Please contact the Technical Services Department. Be sure to mention the name and catalog number of the material.

FIRE-EXTINGUISHING MEDIA

- 1 Carbon dioxide.
- 2 Dry chemical powder.
- 3 Water spray.
- 4 Alcohol or polymer foam.
- 5 Class D fire-extinguishing material only.
- 6 Water may be effective for cooling, but may not effect extinguishment.
- 7 Carbon dioxide, dry chemical powder, alcohol or polymer foam.
- 8 Foam and water spray are effective but may cause frothing.
- 9 Do not use dry chemical powder extinguisher on this material.
- 10 Do not use carbon dioxide extinguisher on this material.
- 11 Noncombustible.
- 12 Do not use water.
- 3 Use extinguishing media appropriate to surrounding fire condition



SITE DISTHETER LOG

PROJECT/PAN	ZTOS	1/EIL	3195AA	SITE NAM	<u> </u>	nus L	a 65
SITE SAFETY	OFFICER			VEEK OF			
NAHE AND DOSIN. #	HONDAT	TUESDAY	VEDNESDAY	THURSDAY	FRIDAT	SATURDAY	SUNDAY
Graczyk)					·
Rydzewski							
Kulokowsk:							
·							
	÷						·
							·
·	- `	·					
			·	·			

To the nearest half-hour, record time spent downrange as "S" (e.q., S:2.5hrs), time spent in active POS operation as "P", and any time spent downrange in rescue activity as "R".

Warehouse Phone (312) 775-7763	F. EQUIPMEN	Job/PAN TT CHECKLIST Team Leader	
PROTECTIVE GEAR			
Level A	No.	Level B	Ko.
SCBA		SCBA	
SPARE AIR TANKS		SPARE AIR TANKS	
ENCAPSULATING SUIT (Type)		FROTECTIVE COVERALL: Type	
SURGICAL GLOVES (Latex)		sn t	
MEOPRENE SAFETY BOOTS		EUTYL APRON	
BOOTIES (Latex)		SURGICAL GLOVES (LATEX)	
GLOTES: Type		GLOVES: Type	
sk K L		SH H L	! !
OUTER WORK GLOVES		KEOPRENE SAFETY BOOTS	
CASCADE SYSTEM		POOTIES (LATEX)	
5-HINUTE ESCAPE HASK		EARD HAT	·
COOLING VEST		FACE SHIELD	
HAPD HAT		MANIFOLD SYSTEM WITH AIRLINE	
		CASCADE SYSTEM	
Level C		FAIN SUIT	
ULTRA-TWIM RESPIRATOR		OUTER WORK GLOVES	
POMER AIR PURIFYING RESPIRATOR	·		
CARTRIDGES (Type)		Level D	
PROTECTIVE COVERALL: Type		ULITA-IWIN RESPIRATOR (Available)	
SHHL		CARTRIDGES (Type)	
BUTTL APROM		S-HINUTE ESCAPE HASK (Available)	
SURGICAL GLOVES (LATEX)		FROTECTIVE COVERALL: Type	
GLOVES: Type	ļ ·	SSE K L	
SH H L		OUTER WORK GLOVES	
OUTER WORK GLOVES		EARD HAT	
GLOVE LINERS	·	FACE SHIELD	
FACE SHIELD		FAIR SUIT	
BARDRAT		WINTER BOOTS	
RAIE SUIT		BOOTIES (LATEX)	
NEOPRENE SAFETY BOOTS		REOPRENE SAFETY BOOTS	
BOOTIES (LATEX)		STEEL TOED BOOTS	
STEEL TOED BOOTS		SAFETY GLASSES	

INSTRUMENTATION	No.	DECON EQUIPMENT	No.
OVA		WASH TUBS	
THERMAL DESORBER		BUCKETS	
02/EXPLOSIMETER W/CAL. KIT		SCRUB BRUSHES	
PHOTOVAC TIP		PRESSURIZED SPRAYER	
RHu (Probe 10.2 OR 11.7)	<u></u>	DETERGENT (Type)	
MAGNETOMETER		SOLAEMI (1286)	
PIPE LOCATOR		PLASTIC SHEETING	
WEATHER STATION		TARPS AND POLES	
DRAEGER PUMP, TUBES		TRASH BAGS	
BRUNTON COMPASS	·	TRASH CARS	
MONITOR CYANIDE		MASKING TAPE	
HEAT STRESS MONITOR		DUCT TAPE	
MOISE EQUIPMENT		PAPER TOWELS	
PERSONAL SAMPLING PUMPS (Type)	·	FACE MASK SANITIZER	
DUST MONITOR (MDA OR GCA System)		FOLDING CHAIRS	,
		STEP LADDERS	
RADIATION EQUIPMENT	·	DISTILLED WATER	
TLD BADGES			
DOCUMENTATION FORMS			
PORTABLE BATEMETER			
SCALER/RATEMETER		SAMPLING EQUIPMENT	
NaI-Probe		80 OZ. AMBER GLASS BOTTLES	
. InS Probe		1 L. AMBER GLASS BOTTLES	
GM Pancake Probe		40 ML. VIALS	
GM Side Window Probe		1 L. PLASTIC	
MECRO R METER / RAD-MINI	·	8 08. GLASS	
ION CHARBER		120 ML. GLASS	
ALERT DOSIMETER		SPOORS .	
POCKET DOSINETER	-	KNIVES	
		FILTER PAPER	
FIRST AID EQUIPMENT		PERSONAL SAMPLING PUMP SUPPLIES	
FIRST AID KIT		BUCK CALIBRATOR	
OXYGEN ADMINISTRATOR		HAND BAILERS	
STRETCHER -2		THIEVING BODS WITH BULBS	
PORTABLE SYE WASH		DIOXIN SAMPLE KIT	
BLOOD PRESSURE MONITOR		PRESERVATIVES: HEO3_ NaOH_ Other_	
PIRE EXTINGUISHER		STRING	
		<u> </u>	

TOOL KIT HYDAWALIC JACK LIFY VESTS CONDUCTIVEY WETER WALLET-TALKIE CONDUCTIVEY WETER TON CALER OIL ARTÉCOSE OIL ARTÉCOSE SETTORY MYARTH-LIVEL INDICATOR SPLIT SPOON SAMPLERS PVC EARD PURP MINDELLANDOUS TITE POPUS SAMPLERS ROBLE PURP SYSTEM MISCELLANDOUS MISCELLANDOU	WAN EQUIPMENT	No.	MISCELLAMEOUS (Cont.)	No.
LIFE VESTS LING WRICHCH LING WRICHCH LING WRICHCH VANI CRECK OUT TON CHAIR CONCUCTIVITY HITER CONCUCTIVITY HITER CONCUCTIVITY HITER THERER CAMERA OLI ARTIFECTOR OLI ARTIFECTOR BATTER BATTER THERER	TOOL KIT		HEARING PROTECTION	
TOM CHAIN VAN CHECK OUT FOR ACTION OF THE PROPERTY OF THE PR	HTDRAULIC JACK		LIFE VESTS	
VAN CHECK OUT Gas Gas CAMERA ANTER-LEVEL INDICATOR SPLIT SPOON SAMPLERS SPLIT SPOON SAMPLERS SPLIT SPOON SAMPLERS SPLIT SPOON SAMPLERS PYC HAND PUMP Windshiold Wash Tire Pressure ROBAIR PUMP STAFFER ROBAIR PUMP STAFFER ROBAIR PUMP STAFFER ROBAIR PUMP SPLITER APPARATUS SELPPING EQUIPMENT COLLERS DOTION SELPPING EQUIPMENT COLLERS SAMPLER AND AND ROD SELPPING EQUIPMENT COLLERS SAMPLER AND AND ROD SELPPING EQUIPMENT VERNICULITE DUST HASK SUMVETOR'S TAFE DUST HASK SHIPPING LABELS SULVETING PLASS TULF "INSIDE CONTAINER COMPLIES" "MASARD GROUP" STAFFPING TAPE SOUL ANGER SERPPING TAPE SOUL ANGER SERPPING TAPE CATALITIC HEATER CATALITIC HEATER CATALITIC HEATER CATALITIC HEATER CHAIR-OF-CUSTOOT FORMS FEDERAL EXPRESS FORMS CLEAR PACKING TAPE SULVETING METERS STICK CHAIR-OF-CUSTOOT FORMS FEDERAL EXPRESS FORMS CLEAR PACKING TAPE SULVETING METERS STICK CHAIR-OF-CUSTOOT FORMS FEDERAL EXPRESS FORMS CLEAR PACKING TAPE SULVETING METERS STICK CHAIR-OF-CUSTOOT FORMS FEDERAL EXPRESS FORMS CLEAR PACKING TAPE SULVETING METERS STICK CHAIR-OF-CUSTOOT FORMS FEDERAL EXPRESS FORMS CLEAR PACKING TAPE SULVETING METERS STICK CHAIR-OF-CUSTOOT FORMS FEDERAL EXPRESS FORMS CLEAR PACKING TAPE SULVETING METERS STICK CRAIMER BADIO	LUG WRENCH		WALKIE-TALKIE	
CAMERA OII MATER-LEVEL INDICATOR Antifreese SPLIT SPOON SAMPLERS PYC EARD FUMP Windshield Wash RESISTIVITY HUTER WILL POINT SAMPLER ROBAIR FUMP SYSTEM RESISTIVITY HUTER WILL POINT SAMPLER ROBAIR FUMP SYSTEM THERMOSTER WASTERLEX FUMP & FILTER APPARATUS SHIPPING EQUIPMENT COOLERS PITCHER PUMP PAINT CAMES WITH LIDS, 7 CLIPS EACH SURVETOR'S TAPE UVERNICULITE DUST MASK JOB FILOR FUMP FILOR STRING DUST MASK FILOR STRING DUST MASK SHIPPING LABELS "UNP" "HASTER EARDON "UN" "HASTER EARDON "ALEARD GROUP" SHOULD HORE SHOULD HORE STRAPPING TAPE CUSTOOT SEALS C	TOM CHAIN		CONDUCTIVITY HETER	
MATER-LEVEL INDICATOR ARTIFECTE ARTIFECTE ARTIFECT ARTIFECT Battery Windshield Weeh Tire Pressure WELL POINT SAMPLER ROBAIR PURP SYSTEM ROBAIR PURP SYSTEM RISCELLAREOUS THERMORIER ROBAIR PURP SYSTEM ROBAIR PURP SYSTEM ROBAIR PURP 6 FILTER APPARATUS SIMPPING EQUIPMENT COOLERS PITCHER PURP PAINT CAMS WITE LIDS, 7 CLIPS EACH VERRICULITE DUST MASK JOS HILDS ROPE SIMPLOR ROPE SIMPLOR ROPE SIMPLOR ROPE SIMPLOR ROPE FILM "UP" "INSIDE CONTAINER CONTPLIES" WHEEL BARROW "UP" "INSIDE CONTAINER CONTPLIES" WHEEL BARROW "ALEARD GROUP" SHOUG WRENCH SHOUGH REALS SHOULL ANGER PICK BAGGIES SHOULL CANALITIC HEATER CANALITIC HEATER CANALITIC REATER TEOPANE STICK CEALWING PINS 4 RIBG VANLES VAN	VAN CHECK OUT		PH METER	
ARLIT SPOON SAMPLERS Battery PYC HAND PUMP Windshield Wash Tire Pressure MELL POINT SAMPLER ROBAIR PUMP SYSTEM MISCELLANEOUS THERMORETER MASTERPLEX PUMP & FILTER APPARATUS SHIPPING EQUIPMENT LEVEL/TRIPOD AND ROD SHIPPING EQUIPMENT COOLERS PITCHER PUMP SURVETOR'S TAPE 100 FIBERGLASS TAPE 100 FIBERGLASS TAPE DUST HASK SHIPPING LABELS WINTER PLANES SHIPPING LABELS SHIPPING LABELS WIP' "INSIDE CONTAINER COMPLIES" "WASHER BARROM "UP' "INSIDE CONTAINER COMPLIES" MELEL BARROM STRAPPING TAPE SOIL AUGER BOTTLE LABELS CUSTOMT SALS CUSTOMT	Ges		CAMERA	
Battery PVC HAND FURP Mindshield Mesh RESISTIVITY METER Tire Pressure Mell Point SAMPLER ROBAIR FURP SYSTEM RISCRILAMEOUS THERMONITER RISCRILAMEOUS THERMONITER RISCRILAMEOUS THERMONITER RISCRILAMEOUS THERMONITER LLYEL/TRIPOD AND ROD SHIPPING EQUIPMENT COOLERS PITCHER PURP PAINT CARS WITH LIDS, 7 CLIPS EACH VERNICULITE LIDS, 7 CLIPS EACH VERNICULITE LIDS, 7 CLIPS EACH VERNICULITE UPP SIMPLES 100 FIRERGLASS TAPE DUST MASK SHIPPING LABELS SHIPPING LABELS FILM "INSIDE CONTAINER COMPLIES" WHEEL BARROW STRAPFING TAPE SOIL AUGUR BOTTLE LABELS SOUTH LABELS SOUTH CONTAINER COMPLIES" CHARMING ROUP' STRAPFING TAPE CHARM-OF-CUSTORY FORMS FEDERAL EXPRESS FORMS FEDERAL EXPRESS FORMS SAMPLES TAPE SURVETING METER STICK CHARMING PIRS & RING TABLES WEATHER RADIO	oil		WATER-LEVEL INDICATOR	
Battery FVC HAND PUMP Windshield Wash RESISTIVITY METER Tire Pressure Well Point Sampler ROBAIR PUMP SYSTEM THERMORETER KISCELLARROUS THERMORETER KISCELLARROUS THERMORETER KISCELLARROUS THERMORETER COLERS BOMLS COOLERS PITCHER PUMP PAINT CARS WITH LIDS, 7 CLIPS EACH SURVETOR'S TAPE VERMICULITE DUST HASK SURVETING STRING DOT LABELS: "DANGER" SURVETING FLAGS "UP" FILM "INSIDE CONTAINER COMPLIES" WHEEL BARROW STRAPPING TAPE BUNG WRENCH STRAPPING TAPE BUNG WRENCH STRAPPING TAPE SOIL ANGER DOTTLE LABELS SHOVEL CUSTODT SEALS CHAIM-OF-CUSTODY FORMS PROPANE GAS FERMING EARNEST TAPE SURVETING HEFTE SYICK CHAIRFOR PIRS & PING TABLES WEATHER RADIO	Antifreese		SPLIT SPOON SAMPLERS	
TITE PRESSURE RESCRILAREOUS THERMORETER ROBAIR PUMP SISTEM THERMORETER THERMORETER RASTERFLEX PUMP & FILTER APPARATUS SHIPPING EQUIPMENT COOLERS PITCHER PUMP PAINT CARS WITH LIDS, 7 CLIPS EACH VERNICULITE DUST HASK SHIPPING LABELS TOPE WILLOW STRING DOT LABELS: "DANGER" "UP" "INSIDE CONTAINER COMPLIES" "WHEEL BARROW BUMG WARNCH SOIL AUGER PICK BAGGIES COLATALITIC BEATER CHAIM-OF-CUSTODY SEALS CHAIM-OF-CUSTODY FORMS PROPARE GAS BARRES TAPE SURVETING HETER STICK CHAIM-OF-CUSTODY FORMS CHAIM-OF-CUSTODY FORMS PROPARE GAS BARRES TAPE SURVETING HETER STICK CHAIM-OF-CUSTODY FORMS PROPARE RADIO	Battery		PVC HAND PUMP	
ROBAIR PURP SYSTEM THERMORETER MASTERIEX PURP & FILTER APPARATUS SHIPPING EQUIPMENT COALERS PAINT CANS WITH LIDS, 7 CLIPS EACH SURVETOR'S TAPE PAINT CANS WITH LIDS, 7 CLIPS EACH VERMICULITE DUST MASK SHIPPING LABELS SHIPPING LABELS FILM SURVETING PLAGS FILM WHEEL BARRON WEREL BARRON BUNG WRENCH SOIL AUGER PICK SHOVEL CATALITIC HEATER CHAIR-OP-CUSTODY FORMS FEDERAL STPERS FORMS SURVETING METER STICK CHAIRSO PINS & RING TABLES WEATER RADIO	Windshield Wash		RESISTIVITY METER	
RISCELLARROUS CHALK LEVEL/TRIPOD AND ROD BOWLS FITCHER PUMP FITCHER PUMP SURVETOR'S TAPE LOO FIBERGLASS TAPE BOWLS BOWLS FILM TILM WHEEL BARROW BUNG WRENCE SOIL ADGER STRAPPING TAPE STRAPPING TAPE TOUR TAPE BOWLS CATALITIC HEATER RAMEEL TAPE SURVETING OFFERS A RING TABLES WEATHER RADIO	Tire Pressure		WELL POINT SAMPLER	
CHALK LEVEL/TRIPOD AND ROD SHEPPING EQUIPMENT COOLERS PITCHER PUMP PAINT CARS WITH LIDS, 7 CLIPS EACH VERNICULITE 100 FIBERGLASS TAPE DUST MASK SHIPPING LABELS WILDH ROPE HTLON STRING DOT LABELS: "DANGER" "UP" "INSIDE CONTAINER COMPLIES" WHEEL BARROW WHEEL BARROW STRAPPING TAPE SOIL AUGER BOTTLE LABELS SHOVEL CATALITIC HEATER CHALTER TAPE SURVETING AUGER BARRET TAPE SURVETING RETERS FORMS CLEAR PACKING TAPE SURVETING NETER STICK CHALLES SURVETING NETER STICK CHALLES WEATHER RADIO			ROBAIR PUMP SYSTEM	
LEVEL/TRIPOD AND ROD BOMLS COOLERS PITCHER PUMP PAINT CARS WITH LIDS, 7 CLIPS EACH VERHICULITE 100 FIDERGLASS TAPE DUST HASK SHIPPING LABELS SHIPPING LABELS SHIPPING LABELS WIP* "INSIDE CONTAINER" "UP* "INSIDE CONTAINER COMPLIES" WHEEL BARROW WHEEL BARROW STRAPPING TAPE BOUNG WRENCH SOIL AUGER PICK BAGGIES CUSTODY SEALS CHAIR-OF-CUSTODY FORMS PROPANE GAS BARNER TAPE SURVEYING METER STICK CHAIRING PINS & RING TABLES WEATHER RADIO	RISCELLAREOUS		THERMOMETER	
BOMLS PITCHER PUMP PAINT CARS WITH LIDS, 7 CLIPS EACH VERNICULITE DUST MASK JOB PRICE ROPE BY SHIPPING LABELS SHIPPING LABELS: "DANGER" SURVEIING FLAGS FILM WHEEL BARROW WHAEARD GROUP' STRAPPING TAPE SOIL AUGER BOTTLE LABELS SOIL AUGER PICK BAGGIES SROVEL CATALITIC HEATER PEDPANE GAS EACH SURVEYING TAPE SURVEYING REATER CHAIN-OF-CUSTODT FORMS FEDERAL EXPRESS FORMS CLEAR PACKING TAPE SURVEYING METER STICK CHAINING PINS & RING TABLES WEATHER RADIO	CEALK		MASTERFLEX PUMP & FILTER APPARATUS	
PITCHER PUMP PAINT CARS WITH LIDS, 7 CLIPS EACH VERNICULITE 100 FIBERGLASS TAPE DUST MASK 300 NYLOH ROPE BY THE LABELS SHIPPING LABELS: "DANGER" "UP" "UP" "INSIDE CONTAINER COMPLIES" WHEEL BARROW WHEEL BARROW STRAPPING TAPE BOITLE LABELS SHOVIL CATALITIC HEATER CHAIR-OF-CUSTODY FORMS PEDERAL EXPRESS FORMS CHAIR TAPE SURVETING HASS CLEAR PACKING TAPE SURVETING HASS SURVETING HASS FORMS CLEAR PACKING TAPE SURVETING HASS FORMS CLEAR PACKING TAPE SURVETING METER STICK CHAIRING PINS & RIMO TABLES WEATHER RADIO	LEVEL/TRIPOD AND ROD		SHIPPING EQUIPHENT	
SURVEYOR'S TAPE 100 FIBERGLASS TAPE 100 NYLON ROPE SHIPPING LABELS DOT LABELS: "DANGER" SURVEYING FLAGS "UP" "INSIDE CONTAINER COMPLIES" MHEEL BARROW "HALARD GROUP" BUNG WRENCH STRAPPING TAPE BOTTLE LABELS PICK BAGGIES SROVEL CATALITIC HEATER CHAIR-OF-CUSTODY FORMS PROPANE GAS BANKER TAPE SURVEYING METER STICK CHAIRING PINS & RING TABLES WEATHER RADIO	BOWLS		COOLERS	
DUST MASK 300 NYLOW ROPE SHIPPING LABELS HYLON STRING DOT LABELS: "DANGER" "UP" "INSIDE CONTAINER COMPLIES" MHEEL BARROW BURG WRENCH STRAPPING TAPE SOIL AUGER BOTTLE LABELS BOTTLE LABELS CATALITIC HEATER CHAIR-OF-CUSTODY FORMS PROPANE GAS BARNER TAPE SURVEYING METER STICK CHAIRING PINS & RING TABLES WEATHER RADIO	PITCHER PUMP		PAINT CARS WITH LIDS, 7 CLIPS EACH	
SHIPPING LABELS BYLOH STRING BYLOH STRING SURVETING PLAGS FILM "INSIDE CONTAINER COMPLIES" MEETE BARROW BUNG WRENCH STRAPPING TAPE SOIL AUGER BOTTLE LABELS PICK BAGGIES CUSTODY SEALS CHAIN-OF-CUSTODY FORMS PROPAME GAS BANKER TAPE SURVETING NETER STICK CHAINING PINS & RING TABLES WEATHER RADIO	SURVETOR'S TAPE	,	VERMICULITE	
NYLON STRING DOT LABELS: "DANGER" "UP" "INSIDE CONTAINER COMPLIES" MEEEL BARROW BUNG WRENCH SOIL AUGER SOIL AUGER BOTTLE LABELS PICK BAGGIES CUSTODY SEALS CHAIN-OF-CUSTODY FORMS PROPANE GAS BARRIER TAPE CLEAR PACKING TAPE SURVETING METER STICK CHAINING PIRS & RING TABLES WEATHER RADIO	100 FIBERGLASS TAPE		DUST MASK	
SURVETING FLAGS "UP" "INSIDE CONTAINER COMPLIES" MHEEL BARROW "HAZARD GROUP" SUBG WRENCH SOIL AUGER BOTTLE LABELS PICK BAGGIES CUSTODY SEALS CHAIR-OF-CUSTODY FORMS PROPANE GAS FEDERAL EXPRESS FORMS CLEAR PACKING TAPE SURVETING METER STICK CHAINING PINS & RING TABLES WEATHER RADIO	300 NYLON ROPE		SHIPPING LABELS	
FILM "INSIDE CONTAINER COMPLIES" MHEEL BARROW "HAZARD GROUP" SUBG WRENCH STRAPPING TAPE SOIL AUGER BOTTLE LABELS PICK BAGGIES CHAIR-OF-CUSTODY SEALS CATALITIC HEATER CHAIR-OF-CUSTODY FORMS PROPANE GAS FEDERAL EXPRESS FORMS SANNER TAPE CLEAR PACKING TAPE TABLES WEATHER RADIO	HYLON STRING		DOT LABELS: "DANGER"	
MHEEL BARROW "HAZARD GROUP" SUMM WRENCH SOIL AUGER BOTTLE LABELS BAGGIES CUSTODY SEALS CHAIN-OF-CUSTODY FORMS PROPANE GAS BARNER TAPE CHAIN-OF-CUSTORS CLEAR PACKING TAPE SURVEYING METER STICK CHAINING PINS & RING TABLES WEATHER RADIO	SURVETING PLAGS		"UP"	
BUNG WRENCH SOIL AUGER BOTTLE LABELS PICK BAGGIES CUSTODY SEALS CHAIN-OF-CUSTODY FORMS PROPANE GAS PROPANE GAS PEDERAL EXPRESS FORMS CLEAR PACKING TAPE SURVEYING METER STICK CHAINING PIRS & RING TABLES WEATHER RADIO	PILH		"INSIDE CONTAINER COMPLIES"	
SOIL AUGER PICK BAGGIES CUSTODY SEALS CATALITIC HEATER CHAIN-OF-CUSTODY FORMS PROPANE GAS FEDERAL EXPRESS FORMS CLEAR PACKING TAPE SURVETING METER STICK CHAINING PINS & RING TABLES WEATHER RADIO	WHEEL BARROW		"HAZARD GROUP"	
PICK BAGGIES CUSTODY SEALS CATALITIC HEATER CHAIN-OP-CUSTODY FORMS PROPAME GAS PEDERAL EXPRESS FORMS CLEAR PACKING TAPE SURVEYING METER STICK CHAINING PIRS & RING TABLES WEATHER RADIO	BUNG WRENCH		STRAPPING TAPE	
CATALITIC HEATER CHAIN-OF-CUSTODY FORMS PROPANE GAS PEDERAL EXPRESS FORMS CLEAR PACKING TAPE SURVETING METER STICK CHAINING PINS & RING TABLES WEATHER RADIO	SOIL AUGER	<u>. </u>	BOTTLE LABELS	
CATALITIC HEATER CHAIN-OF-CUSTODY FORMS PROPANE GAS PEDERAL EXPRESS FORMS CLEAR PACKING TAPE SURVEYING METER STICK CHAINING PINS & RING WEATHER RADIO	PICK		BAGGIES	
PROPARE GAS BARRIER TAPE CLEAR PACKING TAPE SURVEYING METER STICK CHAINING PIRS & RING TABLES WEATHER RADIO	SHOVEL		CUSTODI SEALS	
SURVETING METER STICK CHAINING PINS & RING TABLES WEATHER RADIO	CATALITIC HEATER		CHAIN-OF-CUSTODY FORMS	
SURVETING METER STICK CHAINING PINS & RING TABLES WEATHER RADIO			PEDERAL EXPRESS FORMS	
CHAINING PINS & RING TABLES WEATHER RADIO	BANNER TAPE		CLEAR PACKING TAPE	
TABLES WEATHER RADIO	SURVEYING METER STICK			
WEATHER RADIO	CHAINING PINS & RING			
	TABLES])	
BINOCULARS	WEATHER RADIO			-
	BINOCULARS			
NEGAPRONE	MEGAPHONE			

SITE SAFETY MEETING (Must be filled out by Site Safety Officer at the site)

Project	TDD:	PAN #:	
Site Safety Officer :	Date	Time	
Address:			
Type of Work:		·	
		· · · · · · · · · · · · · · · · · · ·	··· ··· · · · · · · · · · · · · · · ·
Si	AFETT TOPICS PRESENTED		
Protective Clothing/Equipment:			
		•	
Chemical Hasards:			
Physical Hazards:	•	•	
Radiation Hazards:			
Emergency Procedures:			
bandigoney 11000ad100.	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	-
	-1		
Hospital/Clinic:			
Hospital Address:		•	,
Special Equipment:		· ·	
Others:			
Checklist	•		
1. Emergency information reviewed? Y/N ar 2. Route to nearest hospital explained and revi 3. Site safety plan readily available and its l The site safety meeting shall be attended by all informational update meetings will be held when	ewed? Y / N and its loc- location known to all team. I personnel who will be w	ation known to all team members? Y / N orking within the site a	
	ATTENDANCE		
PRINT NAME NACZIE	· Lisa	SIGNATURE SIGNATURE	8-3-93
MICHAEL KULLKOWSEI	Men	COAS:	8-3-93
			
		<u> </u>	
EETING CONDUCTED BY:		•	
			·

Revised (4/3/92)

ECOLOGY AND ENVIRONMENT, INC. - CHICAGO

ite Name:		Wind Direction:	PAN/TDD#:	/	
QUIPMENT	ID#	CALIB./OPER. CHECK	INITIALS & DATE	BACKGROUND READING	ON-SITE READI
VA					
HNu					
hotovac Tube					
2 Meter		- 			<u> </u>
xposimeter					
ombo-meter .					
ad-MINI					
onitor-4					
raeger tubes					
onitox					,
OTHERS:					
					
ments on Moni ther?)	toring or E	Protective Clothing (ex:	Was the monitoring eq	uipment possibly effec	ted by the
			<u> </u>	· · · · · · · · · · · · · · · · · · ·	
					
-Leader	(Print		(Si	gnature)	(Date)
Safety Offic		Print Name	- 151	gnature)	(Date)

Please submit the original to Ron Bugg and a copy to the project file

(Revised 4/3/92)

Vehicle Safety Checklist Ecology & Environment, Inc. Chicago Office

late: Ti	se:	Odometer:		
ehicle Hodel:	Color:	License Plate No		
NTERIOR:		HECHANICAL OPERATION:		
All Safety Belts-Pro	per Locking	Engine (misses, knocks, etc.)		
Parking Brake		Check 0il		
	•	Vater/Anti-freeze		
TART ENGINE:	•	Viper Fluid		
Oil Pressure	•	Brake Pluid		
Instrument Panel				
(Varning Lights or I	Buzzers)	OUTSIDE:		
Horn		Tires (properly inflated)		
Vindshield Viper & V	lasher	Gas Tank Cap		
Heater/Defroster		•		
Mirrore		EKERGENCY EQUIPMENT:		
Steering (Loose) Interior Lights Emergency Flashers Starts Properly		Fire Extinguisher		
Interior Lights		Pirst Aid Kit		
Emergency Flashers	•	Plags, Places,		
Starts Properly		Spare tire (properly inflated)		
		Flags, Flares, Spare tire (properly inflated) Tire Changing Kit		
PRONT:		(jack, tools, etc.)		
Headlights (Dim/Bri	ght)			
Turn Signals		REMARKS:		
Energency Flashers		<u> </u>		
				
REAR:		· · · · · · · · · · · · · · · · · · ·		
Tail Lights				
Brake Lights				
Back th rights		,		
RKAR: Tail Lights Brake Lights Back up Lights Turn Signals Emergency Flashers				
Emergency ranners				
TEAM MEMBER/OPERATOR:				
	(print name)	signature		
SITE NAME/ADDRESS:				
PAN/JOB NUMBER:	4	<u> </u>		
	KTURN OF VEHIC	CLE TO DUTY STATION		
•				
Vehicle Cleanliness:		· o		
Renarks:				
Corrections Necessary:				
TEAM NEWBER/OPERATOR:				
	(print	name) signature		
Dates	line:	Odoneter:		